

Station KLDF-CA • DTV Channel D17 • Lompoc, California

**Engineering Specifications of Proposed Operation
(SUPPLEMENTAL SUMMARY FOR STATION RECORDS)**

A. Tower

FCC Tower Registration No.	None	
Purisima Ridge, 11.4 km N of Lompoc, Santa Barbara County, California		
Geographic Coordinates	<u>NAD83</u>	<u>NAD27</u>
	34° 44' 30.0" N	34° 44' 30.1" N
	120° 26' 49.3" W	120° 26' 45.7" W
Elevation of site above mean sea level	378.0 m	
Overall tower height above ground level	18.9 m	
Overall tower height above mean sea level	396.9 m	

B. Effective Heights

Height of radiation center above ground level	9.4 m
Height of radiation center above mean sea level	387.4 m
Height of average terrain above mean sea level (8 radials, 30-second terrain)	152.0 m
Height of radiation center above average terrain	235.4 m

C. Antenna System

Make/model	Scala, Model 4DR-16-2HW	panel array
Orientation		230°T
Polarization		Horizontal
Electrical beam tilt		none
Mechanical down tilt		none
Transmission line	Andrew, Type LDF5-50A 7/8" foam dielectric coax	22.9 m

D. Operation

Channel	17
Frequency (center of channel)	491 MHz
Emission mask	Simple
Transmitter power output	0.129 kW
Transmission line efficiency	86.0%
Maximum antenna gain	12.6
Maximum effective radiated power	1.40 kW

